



# SLOVENSKI STANDARD

## SIST EN 441-7:2000

01-december-2000

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### Refrigerated display cabinets - Part 7: Defrosting test

Refrigerated display cabinets - Part 7: Defrosting test

Verkaufskühlmöbel - Teil 7: Abtauprüfung

Meubles frigorifiques de vente - Partie 7: Essai de dégivrage

Ta slovenski standard je istoveten z: EN 441-7:1994

[SIST EN 441-7:2000](https://standards.iteh.ai/catalog/standards/sist/1e441ae8-6651-40a9-bf0b-0867c9ad63ff/sist-en-441-7-2000)

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#### **ICS:**

97.130.20      Hladilne naprave za trgovine      Commercial refrigerating  
appliances

**SIST EN 441-7:2000**

**en**

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EUROPEAN STANDARD

EN 441-7

NORME EUROPÉENNE

EUROPÄISCHE NORM

October 1994

ICS 97.040.30

Descriptors: Refrigerators, furniture, commerce, tests, defrosting, testing conditions

English version

## Refrigerated display cabinets - Part 7: Defrosting test

Meubles frigorifiques de vente - Partie 7:  
Essai de dégivrage

Verkaufskühlmöbel - Teil 7: Abtauprüfung

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This European Standard was approved by CEN on 1994-10-14. CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CEN member.

The European Standards exist in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the Central Secretariat has the same status as the official versions.

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# CEN

European Committee for Standardization  
Comité Européen de Normalisation  
Europäisches Komitee für Normung

Central Secretariat: rue de Stassart, 36 B-1050 Brussels

## Foreword

This European Standard has been prepared by the Technical Committee CEN/TC 44 "Household refrigerating appliances", the secretariat of which is held by UNI.

This European Standard shall be given the status of National Standard, either by publication of an identical text or by endorsement, at the latest by april 1995, and conflicting National Standards shall be withdrawn at the latest by april 1995.

This European is part of a series:

- Part 1: Refrigerated display cabinets - Terms and definitions
- Part 2: Refrigerated display cabinets - General mechanical and physical requirements
- Part 3: Refrigerated display cabinets - Linear dimensions, areas and volumes
- Part 4: Refrigerated display cabinets - General test conditions
- Part 6: Refrigerated display cabinets - Classification according to temperature
- Part 7: Refrigerated display cabinets - Defrosting test
- Part 8: Refrigerated display cabinets - Water vapour condensation test
- Part 9: Refrigerated display cabinets - Electrical energy consumption test
- Part 10: Refrigerated display cabinets - Test for the absence of odour and taste
- Part 11: Refrigerated display cabinets - Installation, maintenance and user's guide

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According to the CEN/CENELEC Internal Regulations, the following countries are bound to implement this European Standard: Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom.

## 1 Scope

1.1 This standard specifies terminology, general mechanical and physical requirements, test conditions as well as installation, maintenance and user's guide for refrigerated display cabinets for the sale and/or display of food products.

This standard does not cover refrigerated vending machines or cabinets intended for use in catering or similar non retail applications.

1.2 This part of EN 441 specifies the procedure to test the defrosting method of refrigerated display cabinets when tested at the same conditions as those specified for the temperature test (see EN 441-5). The test is not applicable to cabinets or parts of cabinets intended to be defrosted manually.

## 2 Normative references

This European standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies.

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EN 441-4 Refrigerated display cabinets - Part 4: General test conditions

prEN 441-5 Refrigerated display cabinets - Part 5: Temperature test

## 3 Test procedure

Locate and load the cabinet as for the temperature test (see EN 441-4 and prEN 441-5), operate it in accordance with the manufacturer's instructions at the conditions appropriate to the test room climate class for which it is intended, and then operate it for at least 24 h after stable operating conditions have been reached (see EN 441-4, 5.4) or during the operating period of cabinets intended to be switched off at night (see prEN 441-5, 3.2).

NOTE: This test may be carried out just after the temperature test.

At the end of the first defrost period, the cabinet shall be switched off and, as necessary, unloaded as quickly as possible. All surfaces, excluding test packages, within the refrigerated space shall be examined for any residual water, ice, frost or snow after dismantling as necessary, accessories and parts.

If water, ice, frost or snow is evident and/or if the temperature test performance level is not being maintained, continue to test for a further period of at least 48 h under the same test conditions and with no adjustment to the control device(s).

#### 4 Test report

The test report shall clearly state:

- a) the manufacturer's name or trade mark or both;
- b) the model and serial number of the cabinet as well as the description of its internal fittings;
- c) the test room climate class for which the cabinet is intended and in which the test has been made;
- d) the method of temperature control, defrost process, defrost termination, setting parameters and sensor locations.
- e) whether the test was made with or without night-covers;
- f) the result of measurement and observations made after each test period defined in clause 3.

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